9813.1 Humboldt Bay

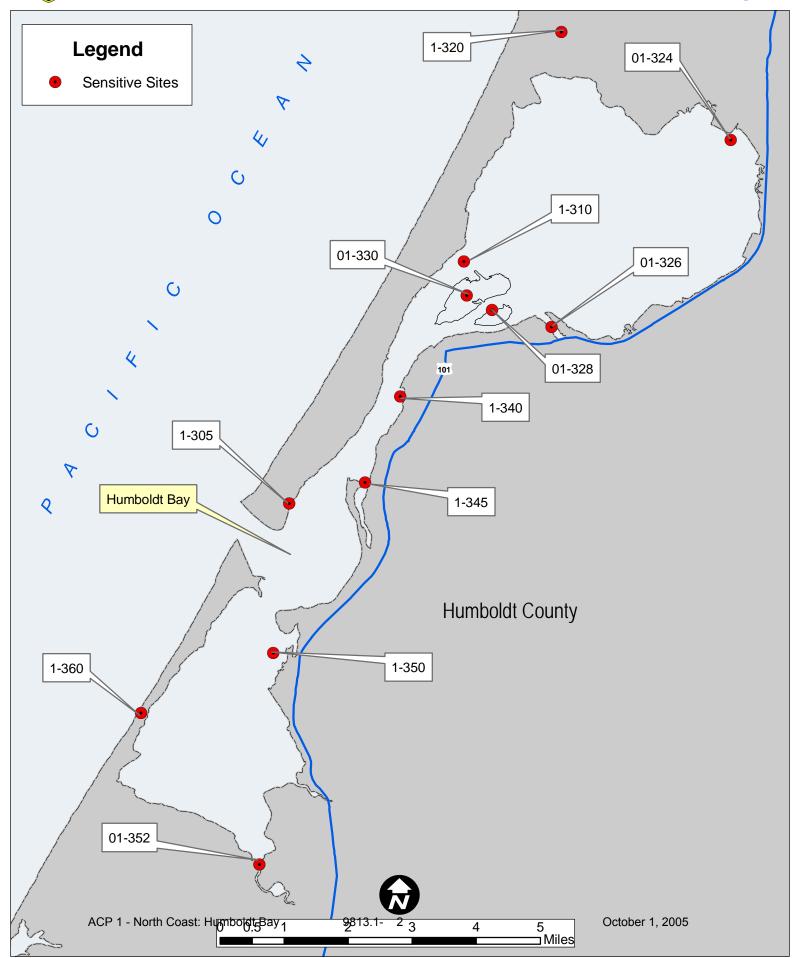
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ACP 1 HUMBOLDT BAY SENSITIVE SITES





HUMBOLDT BAY GEOGRAPHIC RESPONSE PLAN

This insert into the North Coast Area Contingency Plan may also serve as a removable field guide during an oil spill response.

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Important Information Please complete the field.	ition iis page and make a co l	oy for the	situation un	it before going into								
SPILL NAME:												
Your name:	(Organizatio	n									
Phone	_Cellular	_Pager	Radio	Call Sign								
EMERGENCIES:H	ighway Patrol, Sheriff, F	Police, Med	ical,	.911								

	Location or Person	Phone #	Cellular #	Pager #
Your Supervisors				
Command Center				
Operations				
Planning				
Logistics				
Safety Officer				
				·

HUMBOLDT BAY GEOGRAPHIC RESPONSE PLAN

INTRODUCTION

General Description: Humboldt Bay is a large tide-driven coastal lagoon with very little freshwater input. The Bay is separated from the ocean by long sand spits with an entrance channel artificially stabilized by concrete dolosse. The Bay consists of three segments: 1) North Bay (Arcata Bay); 2) South Bay; and, 3) Entrance Bay/North Bay Channel. North and South Bays are both characterized by extensive tidal mud flats with more than 1/2 of each exposed at low tides. They are extensively interlaced with drainage channels and have important wildlife and commercial mariculture value. The Entrance Bay/North Bay channel area is a relatively narrow, deeper central area, and is the industrialized portion of the shoreline.

Currents: The circulation of Humboldt Bay water is almost entirely tidally driven. South Bay's water exchange rate amounts to 60% of its Mean High Water (MHW) volume, and North Bay's rate of exchange averages 44% of its MHW volume. Measurements have shown that 75% of the water entering and exiting North Bay passes through the Samoa Channel. Complete water exchange estimates vary, but 14 tidal cycles, or about 7.5 days, seems likely.

These large volume exchange rates result in high-velocity tidal currents. The following data were obtained from Boyd, et al., 1992 and were reported as unpublished data, but seem supportable based upon the experience of mariners on the Bay.

North Bay channel	3.0kts
Entrance to South Bay	2.0kts
Entrance Channel	3.3kts
Fureka Inner Reach	1.0kts

Because 75% of the water entering North Bay does so through the Samoa Channel, it seems likely the currents here approach 3 knots.

Hydrology: Freshwater discharge into the bay represents very little of the daily tidal exchange and probably has only a localized effect (Boyd, et. al.). Surrounding foothills provide a small drainage basin of about 222 sq mi (578 km²), with 85% of the water draining to either North Bay, or to Entrance Bay/North Bay channel from the Elk River. About 12% falls as precipitation directly on the Bay and the remainder is runoff into South Bay. Salinity transects done following heavy rainfall have shown most freshwater runoff from North Bay streams to be discharging to the center of the Bay via the inner reach from North Bay. Elk River runoff was quickly mixed with Bay water near Elk River. Only minor depressions in salinity could be found in transects done in South Bay and at the location where South Bay meets Entrance Bay.

Humboldt Bay tides are called mixed tides because there is a major low, a minor high, a minor low, and a major high tide (not necessarily in this order) within each approximate 25 hour period. Greatest current velocities occur during changes from major high to major low or vice versa. All response supervisors should have tidal prediction charts to ensure personnel safety and to aid in response activities.

RESPONSE: Response to any oil spill on Humboldt Bay must be a coordinated, preplanned attack to contain and recover the oil as close to the source of the spill as possible. If the source of a spill is in Entrance Bay/North Bay Channel, this may be the only way to protect both North and South Bays. The characteristics described for North and South Bays make spill response operations within these two areas of the Bay almost impossible except for some tidal inlets accessible by highways along the margins of the Bay. Neither North Bay nor South Bay has a good location where oil can be collected and recovered and water depths are generally insufficient for on-water collection.

Oranges, used as drogues to gauge the trajectory of oil spilled in Humboldt Bay, have shown that it is unlikely oil spilled at the beginning of a flood tide in Entrance Bay, or even at the Chevron bulk fuel plant, would reach North Bay during the first flood tide cycle. It is likely to be carried into South Bay on the first tide cycle if the incident were to occur along the South Jetty. It is likely that it would also enter Elk River on the first flood tide cycle for any incident that occurred at the South Jetty or in Entrance Bay. Spilled oil would not likely reach small stream inlets to North or South Bay until several tide cycles had passed.

On successive tides most oranges became stranded along the western shoreline of the Bay between the Samoa bridge and the USCG boat station. A few stranded in the vicinity of Palco Marsh. If the stranded oranges had been a persistent type oil, they would have been refloated by successive tides and transported towards North Bay.

This geographic response plan recommends a timely and orderly progression of steps that can be taken to contain and recover as much oil as possible within the industrialized portions of the Bay, protect those sensitive wildlife habitats adjoining this part of the Bay, and begin setting-up protective strategies for North and South Bays. These strategies are meant to serve as a guide that will help drive response planning before a spill has occurred and during the early stages of a spill. The strategies should be modified to fit environmental conditions (predicted tide heights, stage of tide, wind, amount of freshwater runoff, etc.) extant at the time of the spill.

This plan does not deal with the most immediate concerns of human health and safety, stopping the spill at its source, and containment at the source. Individual response plans deal with these issues.

The following table describes, in some detail, what can be done once oil is in the water. It sets priorities for response at specific locations, explains the objective for the response, and lists the obvious, but not all, equipment needs. Maps of the Bay showing recommended response locations, and blank maps for responder use, follow. I believe these strategies will help to contain spilled oil within the developed part of the Bay (our primary objective) and help to prevent its spread to North (Arcata) and South Bays.

These same strategies and their order of implementation can be effective at any stage of either a flood, or ebb tide, for any incident occurring between the entrance channel and Chevron's marine terminal, the likely route on which a large incident would occur. Oil spilled at or near the entrance can be expected to reach areas identified with the numeral '1' on the first flood tide after the spill. Those areas numbered '2' should encounter oil on the second flood tide. Those numbered '3' should encounter oil on the 3rd, or subsequent, flood tides.

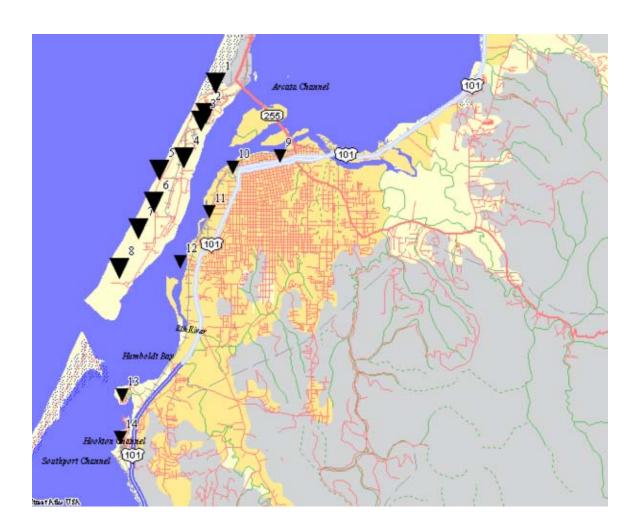
Tabular Response Strategies
Humboldt Bay Geographic Response Plan

Priority	Response	Objective	Equipment Estimates				
	Locations						
1 Bay	Palco Marsh (1-340-1)	Install pre-fitted splash boards into the water gate to prevent tidal exchanges	Splash boards are stored at the Chevron Terminal in Eureka				
Entrance & North Bay	(1-340-2)	Insure the Del Norte Street tidal gates are free from debris	Debris hooks, shovels, pry-bar, pitchfork				
Channel	Elk River Marsh (1-345-1)	Shut key-locked drop gates to prevent tidal exchange into the marsh	Keys from the Chevron Terminal or the City of Eureka				
	Incident specific on the water recovery	Recover oil using the pre-staged MSRC shuttle barge	Shuttle barge, workboat, crews & all operational ancillary components				
	Natural Collection sites (1-305-2)	Boom to direct oil into natural debris collection areas of the bay	4 work boats, 2000' hard boom, 10 anchors, 2x 4 person crews, 2 functional skimmer systems & waste storage collection				
1	Indian Island	Deflect oil away from	3500' harbor boom, 2 skiffs & 10 workers				
Samoa Channel	(1-330-1) (1-310-2)	Island. Direct oil with boom to a skimmer.	1200' harbor boom, SPS, & 10 workers.				
1 South Bay	Buhne Point to South Bay boat (1-350-1)	Deploy boom to strand oil on shore.	1200' harbor boom, work boats, skimmers & 10 workers				
-	Southport Channel (1-350-2)	On water recovery	SBS, 100' boom, 2 skiffs and their operators				
2 Samoa	Indian Island (1-330-2)	Deflect oil away from Island to Woodley Is.	1200' harbor boom,2 skiffs & 10 workers				
Channel	Louisiana Pacific Dock (1-310-3)	Recover oil by diverting to shore based skimming	2000' harbor boom, in <400' segments, 1 skimmer & storage, 1 skiff, 4 workers				
2 Central Bay	Elk River (1-345-2)	Recover oil. Stop oil movement up river.	1400' harbor boom, 300' sorbent boom, 1 skiff, 1 skimmer & storage, 10 workers				
2 Indian & Woodley	Indian Island (1-330-2)	Deflect oil from Indian Island to Woodley Island	1200' harbor boom, 1 boom boat, 10 workers				
Islands / Eureka Channel	Woodley Island (1-328-1)	Deflect oil from Eureka channel to skimmer at Woodley Island	1200' harbor boom, 1 skiff, 10 workers, 1 skimmer & storage				

Tabular Response Strategies Humboldt Bay Geographic Response Plan

Priority	Response Locations	Objective	Equipment Estimates
3 North (Arcata) Bay	Mad River Slough (1-320)	Prevent oil from entering the slough	1200' hard boom, 1200' sorbent boom, 100' S boom, anchors, stakes, skimmer & storage, 6 workers, & hand tools.
	Jacoby Creek (1-324)	Prevent oil from entering the creek	500' hard boom, 500' sorbent boom, 100' S boom, anchors, stakes, 6 workers, & hand tools.
	Gannon Slough (1-324)	Prevent oil from entering the slough	500' hard boom, 500' sorbent boom, 100' S boom, anchors, stakes, 6 workers, & hand tools.
	Butcher Slough (1-324)	Prevent oil from entering the slough	300' hard boom, 300' sorbent boom, 50' S boom, anchors, stakes, 6 workers, & hand tools.
	McDaniels Slough (1-324)	Prevent oil from entering the slough	150' hard boom, 150' sorbent boom, 50' S boom, anchors, stakes, 6 workers, & hand tools.
	Eureka Slough (1-326)	Prevent oil from entering the slough, and recover oil if possible.	1000' hard boom, 1000' sorbent boom, 200' S boom, anchors, stakes, 10 workers, & hand tools. Skimmer & storage as needed
3 South Bay	White Slough & Salmon Creek (1-352)	Prevent oil from entering the slough	Use 600' of hard boom, deliverable to site by USCG helicopter

Access points map for Humboldt Bay.



Waterfront Access for Spill Response.

- 1. Louisiana Pacific Corp. Samoa Wharf. Take L-P Drive off New Navy Base Rd.
- 2. Louisiana Pacific Corp., Samoa chips Wharf. Take L-P Drive off New Navy Base Rd.
- **3.** Louisiana Pacific Corp., chips wharf (formerly North Coast Export Co.). Take L-P Drive off New Navy Base Rd.
- 4. South Bay Marina, Samoa division, marine ways. Bay St. off New Navy Base Rd.

- 5. Simpson Paper Co., wharf. Plant is currently closed. 2nd right turn off Bay St., off New Navy Base Rd. leads to 24 hour gate with guard. Good staging area with easy access from town of Fairhaven. See gate guard. Fire Dept. at Fairhaven also has a key to this staging area.
- 6. Road access to beach. Left turn onto Lincoln Avenue off New Navy Base Road at town of Fairhaven, about 4 miles S. of State HWY 255 (Samoa bridge). Turn right on Duprey Street and continue to beach.
- 7. Humboldt County public launching ramp. Left turn off New Navy Base road about 4.5 miles S. of State HWY 255 (Samoa Bridge).
- 8. USCG boat station pier. About 5 miles S. of State HWY 255 (Samoa Bridge) on New Navy Base Road.
- 9. City of Eureka launching ramp. Off Waterfront Drive under Samoa bridge.

City of Eureka, K Street Pier.

City of Eureka, J Street Pier.

Nor-Cal Seafoods, I Street wharf.

Fishermans Cooperative Wharf. Foot of D and F Streets extended.

Humboldt Bay Harbor Cruise dock. Foot of C Streets extended.

Coast Oyster pier. Foot of A and D Streets extended.

Eureka Ice and Cold Storage Wharf. Foot of A Street extended.

10. City of Eureka, Commercial Street wharf. Foot of Commercial Street.

City of Eureka, Small craft harbor and launching ramp.

City of Eureka, Humboldt Dock B. Foot of Washington Street extended north.

Pacific Affiliates Dock. Foot of Washington Street extended south.

Unocal Eureka Wharf. Foot of 14th street extended north.

Eureka Forest Products wharf. Foot of 14th street.

- **11.** City of Eureka, Del Norte Street public fishing pier. Foot of Del Norte Street.
- 12. Chevron USA, Eureka wharf. Foot of Truesdale Street.
- **13.** King Salmon. Private launching facilities. Shoreline access. King Salmon exit from US Hwy 101 about 2 miles S. of Eureka.
- **14.** Humboldt Bay Forest Products wharf. G Street, Fields Landing.

South Bay Marina Fields Landing Pier.

Eureka fisheries wharf G Street, Fields Landing.

Public Launching ramp. Railroad Ave, Fields Landing.

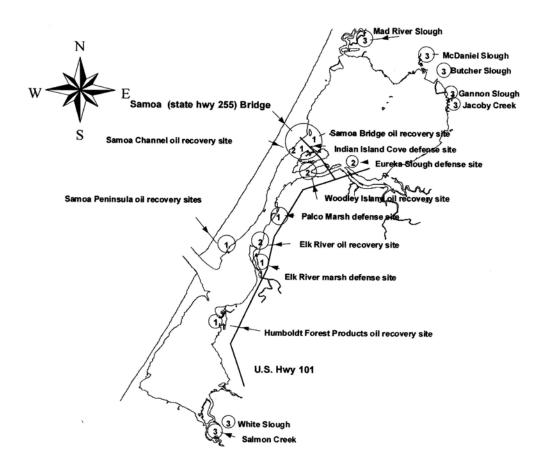
Humboldt Marine Services wharf. Depot Road, Fields Landing.

Useful Contact Numbers

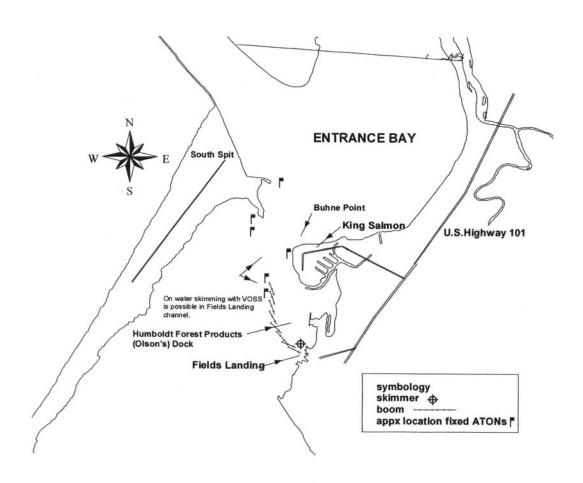
NAME	PHONE NUMBER	24 HOUR NUMBER				
Arcata Police Dept	822-2428	822-2424				
Caito Fisheries	443-0550	441-4054 (EurekaPD)				
California Dept of Fish and Game	(916) 445-0045	(916) 445-0045				
California Highway Patrol	822-5981	443-4395				
Chevron	444-7850	441-4054(Eureka PD)				
City of Arcata	822-6918	822-2424(Arcata PD)				
City of Trinidad	677-0223	677-0133				
City of Eureka	441-4206 or 4187	441-4054(Eureka PD)				
Coastal Commission	415-904-5245	415-904-5245				
Coast Seafood	442-2947	442-3779				
Emerald Pacific Seafoods	fax 839-3465	499-0517				
Eureka Fisheries	443-1673	441-4054(Eureka PD) 445-7251(Sheriff)				
Eureka Police Dept.	441-4060	441-4054				
Humboldt Bay Harbor Recreation and Conservation District	443-0801	443-0804				
Humboldt County Office of Emergency Services	268-2500	445-7251 (Sheriff)				
Humboldt County Environmental Health	445-6215	445-7251 (Sheriff)				
Humboldt County Sheriff	445-7251	445-7251				
Humboldt Fisherman's Marketing Association	443-0537					
Humboldt State Trinidad Marine Lab	826-3671	826-3456				
Kuiper Mariculture	822-9057	822-5102				
Louisiana Pacific Corp.	443-7511	443-4569				

Marine Spill Response Corp	(510) 215-1833	1-800-259-6772				
Northbay Shellfish	839-4723	839-4723				
Other Docks	441-4060(Eureka PD) 445-7251(Sheriff)	441-4054(Eureka PD) 445-7251(Sheriff)				
Pacific Choice Seafoods	442-2981	441-4054(Eureka PD)				
PG&E	444-0700	444-0712				
Sierra Pacific Industries	443-3111	445-7251(Sheriff)				
Simpson Corporation	443-5300	443-9042 (Fire)				
Table Bluff Tribal Council	733-5055	733-5055				
US Fish and Wildlife Refuge	733-5406	443-2602				
USCG Boat Station	443-2213	443-2213				
USCG Air Station	839-6113	839-6113				

Humboldt GRP- All Priorities and Response Locations Overview Diagram



Humboldt GRP-South Bay Priority 1 Response and Access Diagram



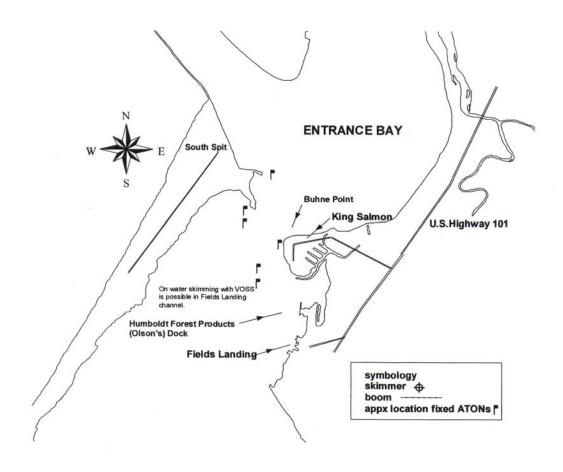
Route to South Spit:

From US Highway 101 in Eureka, go south approximately 5 miles and exit west onto Hookton road. Hookton road ends at a gate that is closed at night. Contact the Humboldt County Sheriff's Department to gain access when the gate is closed. The road beyond the gate will take you to the South Spit.

Route to Fields Landing or King Salmon:

From US Highway 101 in Eureka, go south approximately 2.5 miles and exit at the Fields Landing exit and turn right onto "G" Street. For King Salmon, take the King Salmon exit, turn right and follow the road to bay side access.

Humboldt GRP-South Bay Priority 1 Response and Access Diagram Worksheet



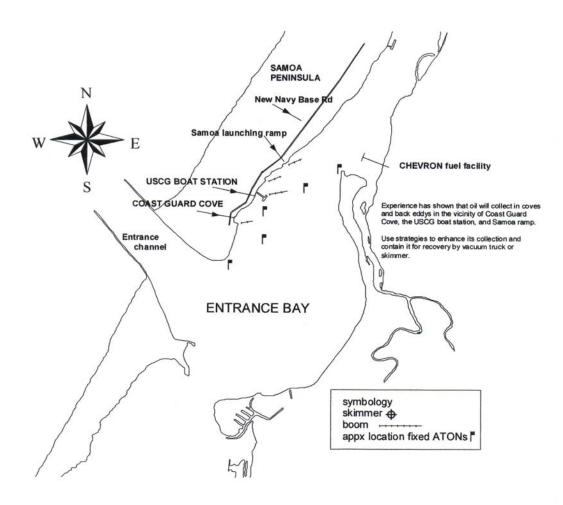
Route to South Spit:

From US Highway 101 in Eureka, go south approximately 5 miles and exit west onto Hookton road. Hookton road ends at a gate that is closed at night. Contact the Humboldt County Sheriff's Department to gain access when the gate is closed. The road beyond the gate will take you to the South Spit.

Route to Fields Landing or King Salmon:

From US Highway 101 in Eureka, go south approximately 2.5 miles and exit at the Fields Landing exit and turn right onto "G" Street. For King Salmon, take the King Salmon exit, turn right and follow the road to bay side access.

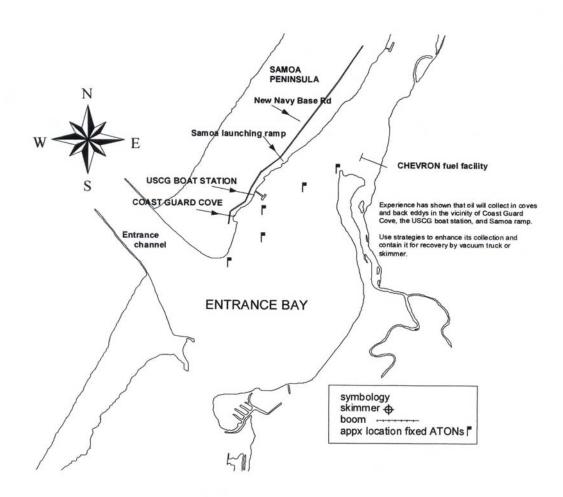
Humboldt GRP-Humboldt Bay Inlet and Inner Samoa Peninsula Priority 1 Response and Access Diagram



Route to Samoa Peninsula and the USCG Boat Station:

From US Highway 101 take State Highway 255 ("R" Street) west across the bay to New Navy Base Road. Turn left and go about 3 miles. Access to the Coast Guard Station is through a guarded gate.

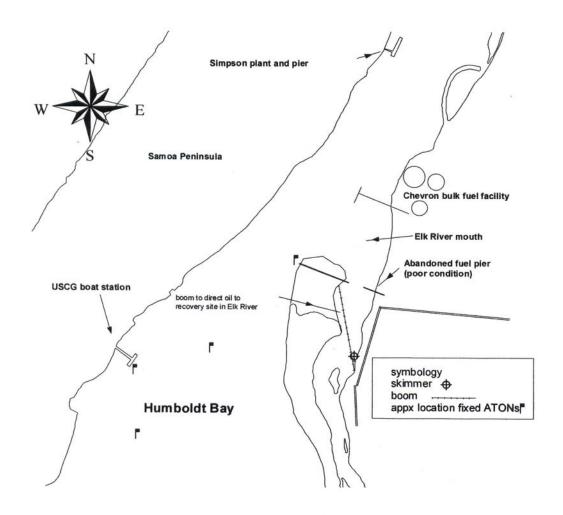
Humboldt GRP-Humboldt Bay Inlet and Inner Samoa Peninsula Priority 1 Response and Access Diagram Worksheet.



Route to Samoa Peninsula and the USCG Boat Station:

From US Highway 101 take State Highway 255 ("R" Street) west across the bay to New Navy Base Road. Turn left and go about 3 miles. Access to the Coast Guard Station is through a guarded gate.

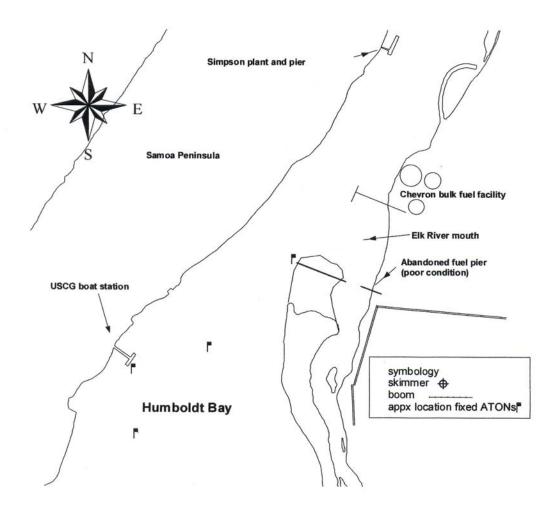
Humboldt GRP-Elk River Marsh Priority 1 Response and Access Diagram



Route to Elk River mouth:

The mouth is at the end of Hilfiker Street. Hilfiker Street is west off of US Highway 101 near the south end of town. The "Hilfiker Pipe Company" is on the corner of US Highway 101 & Hilfiker Streets.

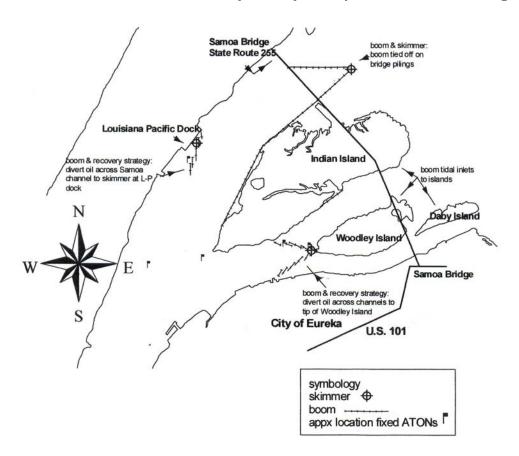
Humboldt GRP-Elk River Marsh Priority 1 Response and Access Diagram Worksheet



Route to Elk River mouth:

The mouth is at the end of Hilfiker Street. Hilfiker Street is west off of US Highway 101 near the south end of town. The "Hilfiker Pipe Company" is on the corner of US Highway 101 & Hilfiker Streets.

Humboldt GRP-North Humboldt Bay Priority 1 Response and Access Diagram



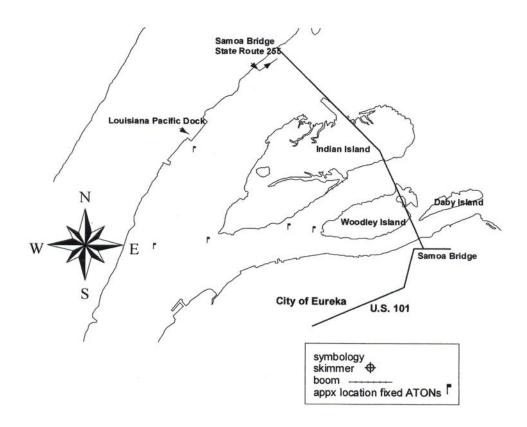
Route to the Louisiana Pacific (L.P.) Dock:

From US Highway 101 take State Highway 255 ("R" Street) west across the bay to New Navy Base Road. Turn left and go to L.P. Drive. Turn Left on L.P. Drive and go east into the L.P. mill.

Route to Woodley Island:

From US Highway 101 take State Highway 255 ("R" Street) west. Exit immediately after crossing the first bridge over the bay onto Startare Drive. Woodley Island Marina is at the end of the street.

Humboldt GRP-North Humboldt Bay Priority 1 Response and Access Diagram Worksheet



Route to the Louisiana Pacific (L.P.) Dock:

From US Highway 101 take State Highway 255 ("R" Street) west across the bay to New Navy Base Road. Turn left and go to L.P. Drive. Turn Left on L.P. Drive and go east into the L.P. mill.

Route to Woodley Island:

From US Highway 101 take State Highway 255 ("R" Street) west. Exit immediately after crossing the first bridge over the bay onto Startare Drive. Woodley Island Marina is at the end of the street.

1-305 - A Site Summary- Humboldt Bay Inlet and Inner Samoa Peninsula

1-305 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: NOAA Chart:

Last Page Update :

SITE DESCRIPTION:

Humboldt Bay is a medium sized natural harbor that is located on the rugged coast about 225 miles north of San Francisco and 156 nautical miles south of Coos Bay, Oregon. Surrounded by beautiful redwood-covered hills, soft sand dunes, and the great Pacific, it's easy to find some way to relax around Humboldt Bay.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Black brant and migratory waterbirds--especially shorebirds--occur in the fall, winter, and spring. In winter it is not unusual for over 100,000 birds to use the Bay as a feeding or resting site.

Occasionally Whales, typically harbor seals.

Anadromous salmonids:

Coho (FT) and Chinook (CSC) salmons, Steelhead (FSS) and Coastal cutthroat (CSC) trouts:

- spawning runs (08-06)
- juveniles/smolts (02-08)

Humboldt Bay Pacific Oyster (Crassostrea gigas) aquaculture. The north bay is home to a large and commercially successful oyster seed production and smaller grow out operation. Care should be taken to minimize impacts to these vital fisheries resources.

Extensive Eel grass beds are exposed on lower tides

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

YES. Contact local tribes in the event of a spill to ensure their issues are address during the response.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

Site Strategy - Humboldt Bay Inlet and Inner Samoa Peninsula 1-305 -A

NOAA CHART

1-305 -A

Longitude W

County and Thomas Guide Location

Humboldt

CONCERNS and ADVICE to RESPONDERS:

Last Page Update:

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 1-305.1 Objective: Notify PG&E when oil threatens King Salmon

ACP DATE

Call (707)444-0700 or 444-0712 (24hours)

Strategy 1-305.2 Objective: Establish shore side deflection, collection and protection at recovery

Install deflection boom at USCG Cove, USCG boat station, Samoa boat launching ramp,

Strategy 1-305.3 Objective: On water skimming of free floating oil

ACP DATE

Use MSRC's pre-staged shuttle barge to begin on water oil recovery in areas where oil is still concentrated.

Table of Response Resources

strategy	harbor	rbor swamp Other		sorb	Anchoring		Boom	Skiffs	Skimmers		Special Equipment	staff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No Type	N	o and kinds	deploy	tend
1-305.1	0	0	0	0	0		0	0	0	0			
1-305.2	2000	0	0	0	10	25# Danforth	4	0	2 SWS	2	Oil containment systems	8	
1-305.3	0	0	0	0	0		0	0	0	1	Shuttle barge	6	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Humboldt Bay is adjacent to Highway 101, near the cities of Arcata and Eureka. Highway 255 passes over it on the north end.

LAND ACCESS:

WATER LOGISTICS:

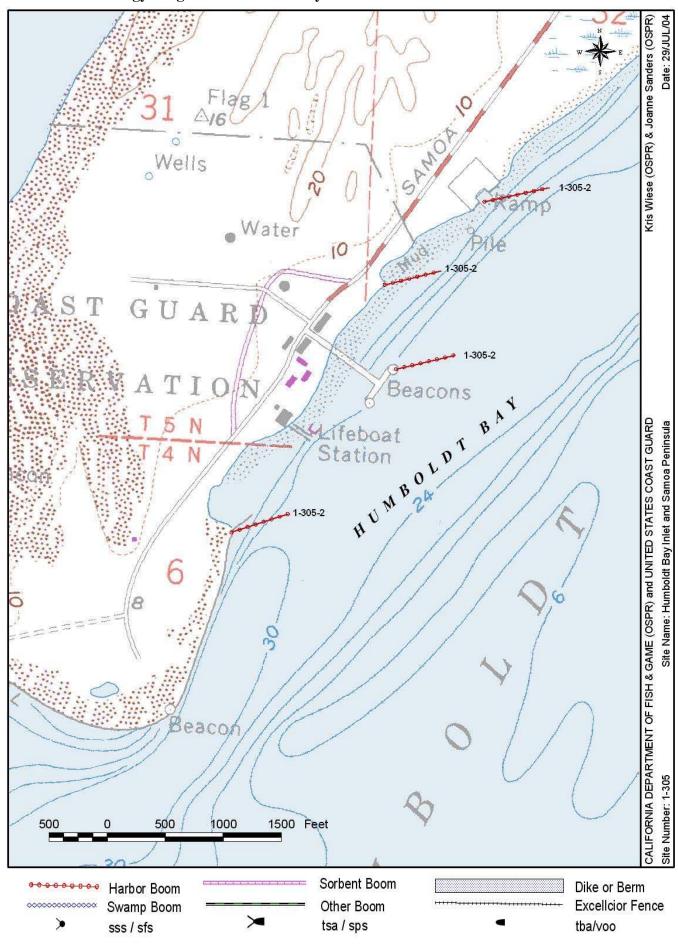
Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Historic large spill have utilized the Red Lion Inn for the Command Post, and local OSRO's have staging areas

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



1-310 - A Site Summary - North Humboldt Bay

1-310 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: NOAA Chart:

SITE DESCRIPTION:

Last Page Update :

The strong tidal currents in the bay can bring oil from the mouth of the bay to the protection sites in North Bay.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Humboldt Bay Hatchery, Pacific Oyster, Crassostrea gigas. The north bay is home to a large and commercially successful oyster seed production and smaller grow out operation. Care should be taken to minimize impacts to these vital fisheries resources.

Anadromous salmonids:

Coho (FT) and Chinook (CSC) salmons, Steelhead (FSS) and Coastal cutthroat (CSC) trouts:

- spawning runs (08-06)
- juveniles/smolts (02-08)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

YES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

1-310 - A Site Strategy - North Humboldt Bay

County and Thomas Guide Location NOAA

NOAA CHART

1-310 -A
Latitude N Longitude W

Humboldt

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 1-310.1 Objective: On water recovery

ACP DATE

Use MSRC pre-staged shuttle barge to begin oil recovery

Strategy 1-310.2 Objective: Prevent oil from entering Arcata Bay

ACP DATE

Deflection booming and Skimming at Samoa HWY 255 bridge. Place a skimmer at the apex of a chevron boom array to catch oil moving into the Arcata Bay. The eastern arm of this deployment should be connected with the protection boom deployed on the Indian Island strategy (1-330).

Strategy 1-310.3 Objective: Deflection to collection

ACP DATE

Use 400' sections of boom (or less) to deflect oil from the Samoa Channel to a floating skimmer at the Louisiana Pacific Lumber dock.

Table of Response Resources

strategy	harbor	swamp	Other	sorb	An	nchoring	Boom	Skiffs	Skimmers		Special Equipment	staff Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No Type	N	o and kinds	deploy tend
1-310.1	0	0	0	0	0		0	0	0	1	shuttle barge	6
1-310.2	1200	0	0	0	0		3	0	1 SPS	0		10
1-310.3	2000	0	0	0	0		1	0	1 SSS	0		4

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Humboldt Bay is adjacent to Highway 101, near the cities of Arcata and Eureka. Highway 255 passes over it on the north end. Response areas include the Samoa Channel & the neighboring islands.

LAND ACCESS:

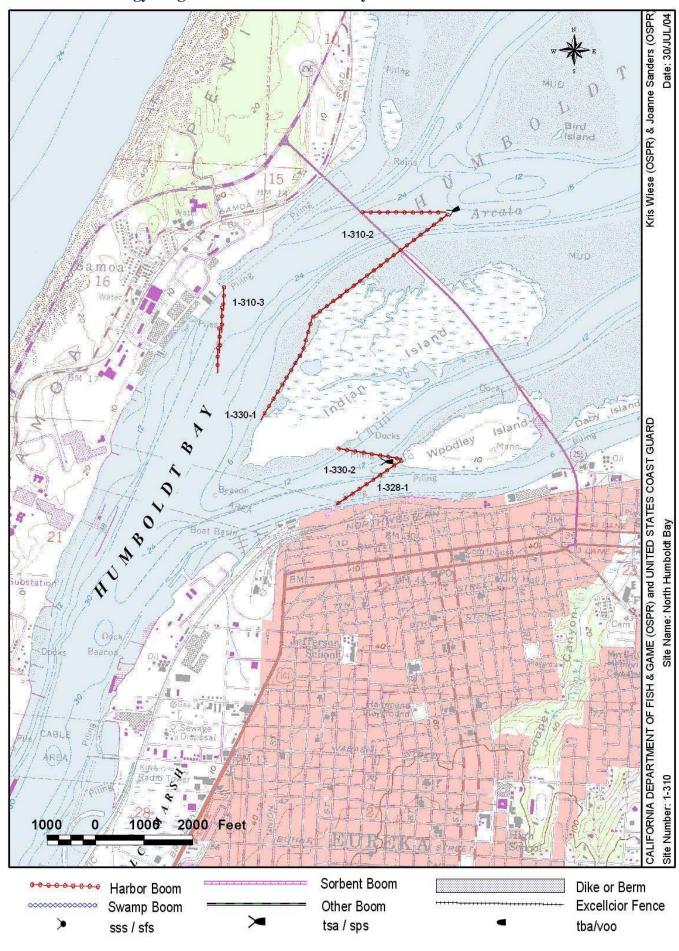
WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



1-320 -A Site Summary- Mad River Slough

1-320 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: NOAA Chart:

Last Page Update :

SITE DESCRIPTION:

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Extensive slough habitat beyond the highway 255 bridge should be excluded from oiling if possible.

Lots of birds, especially Brandts

Muskrat, beaver, and harbor seals are fond of the marsh.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

Site Strategy - Mad River Slough 1-320 -A

NOAA CHART

1-320 -A

Longitude W

County and Thomas Guide Location Humboldt

CONCERNS and ADVICE to RESPONDERS:

Last Page Update:

Latitude N

HAZARDS and RESTRICTIONS:

Shallow water at low & high tides

SITE STRATEGIES

Strategy 1-320.1 Objective: Exclusion booming to exclude the oil from the site.

ACP DATE

Stretch a boom from one side of the channel to the other. Workers may have to walk upon the mudflats to complete this installation. Hip waders and extreme caution is advised when walking on these goey mudflats.

Table of Response Resources

strategy	harbor	swamp	Other	sorb	Aı	nchoring	Boom	Skiffs	Skimn	ners	Spe	ecial E	quipment	staff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No 1	Гуре	No	and	kinds	deploy	tend
1-320.1	1200	100	0	1200	4	25lb danforth	0	1 .	1 sss	(0			6	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Mad River slough is accessible by land from Highway 255, or by shallow draft boat in the northern end of the Samoa channel of Humboldt Bay.

LAND ACCESS:

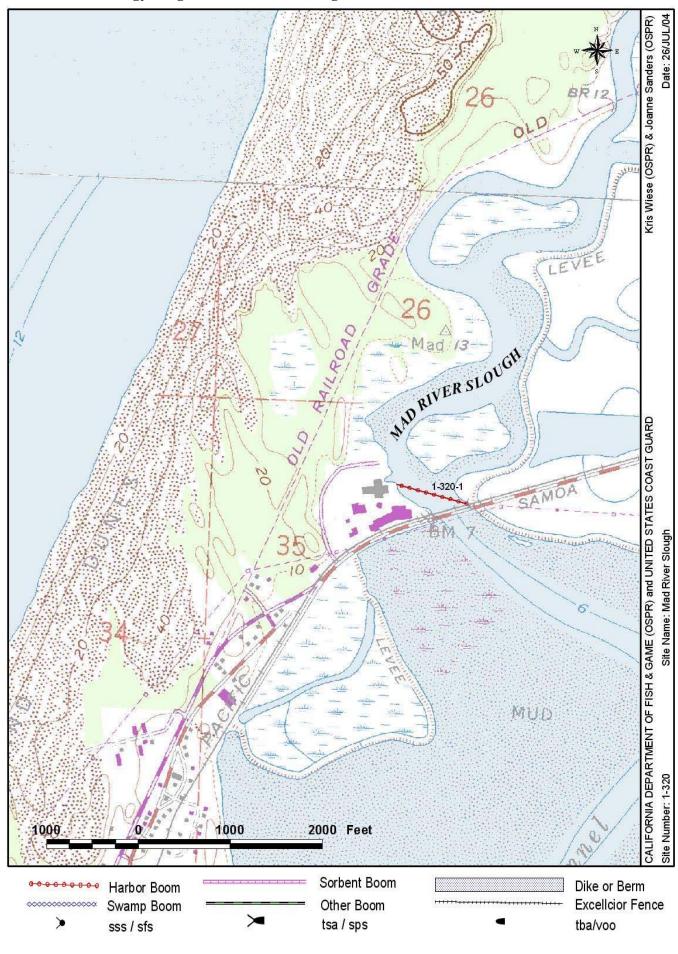
WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



1-324 - A Site Summary - Arcata Bay Sloughs

1-324 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: NOAA Chart:

SITE DESCRIPTION:

Last Page Update :

Site is shallow; and most of it will be exposed mudflats at lower tides. Strong tidal movements will make spill control very challenging in this habitat.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Extensive eel grass beds are the subject of much public interest and concern. Black Brandt utilizes these areas for foraging in winter.

Block Brandt

Anadromous salmonids:

Coho (FT) and Chinook (CSC) salmons, Steelhead (FSS) and Coastal cutthroat (CSC) trouts:

- spawning runs (08-06)
- juveniles/smolts (02-08)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

1-324 - A Site Strategy - Arcata Bay Sloughs

NOAA CHART

1-324 -A
Latitude N Longitude W

Humboldt

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Much of the bay is shallow with abraded channels at low tide. Extensive oyster culture near the Samoa Channel should be avoided by boat traffic.

SITE STRATEGIES

County and Thomas Guide Location

Strategy 1-324.1 Objective: Exclude oil from entering surrounding sloughs, especially Jacoby Creek

Exclusion boom the mouth of the creek.

Strategy 1-324.2 Objective: Exclude oil from entering surrounding sloughs, especially Gannon Slough

ACP DATE

ACP DATE

Exclusion boom the mouth of the slough.

Strategy 1-324.3 Objective: Exclude oil from entering surrounding sloughs, especially Butcher slough.

ACP DATE

Exclusion boom the mouth of the slough.

Strategy 1-324.4 Objective: Exclude oil from entering surrounding sloughs, especially McDaniels slough.

ACP DATE

Exclusion boom the mouth of the slough.

Table of Response Resources

strategy	harbor	swamp	Other	sorb	And	nchoring	Boom	Skiffs	Skir	mmers	Sp	Special Equipment		staff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No	Type	No	and	kinds	deploy	tend
1-324.1	500	100	0	100	0		0	0	0					6	
1-324.2	500	100	0	100	0		0	0	0					6	
1-324.3	300	50	0	100	0		0	0	0					6	
1-324.4	150	50	0	50	0		0	0	0					6	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Arcata bay is at the northern end of Humboldt Bay, and adjacent to Highway 101, near the cities of Arcata and Eureka. Highway 255 passes over it on the south end of Arcata bay.

LAND ACCESS:

WATER LOGISTICS:

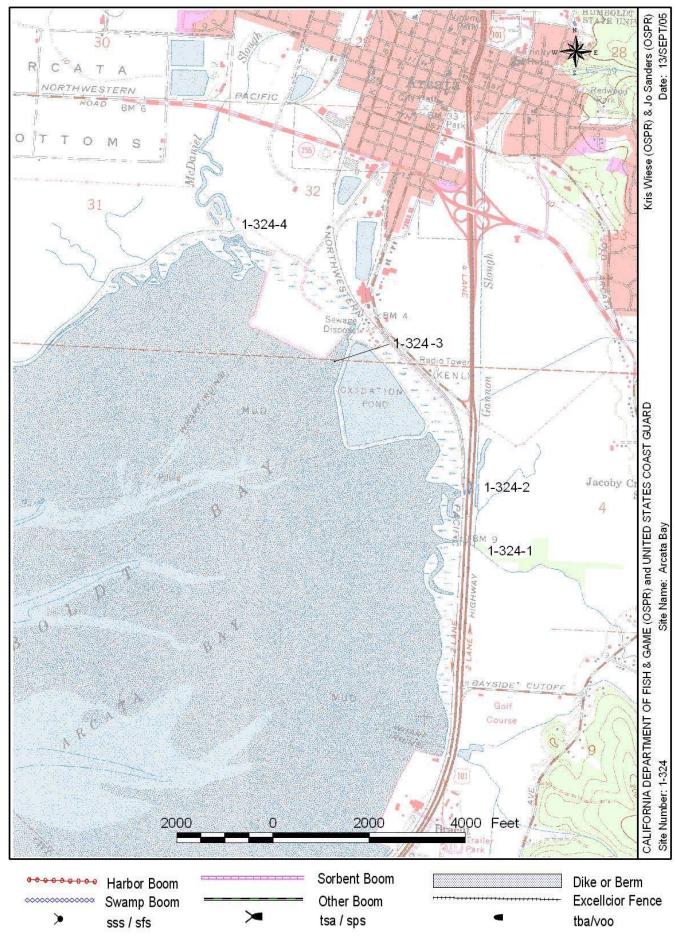
Limitations: depth, obstruction Launching, Loading, Docking

and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



1-326 - A Site Summary - Eureka Slough

1-326 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: NOAA Chart:

Last Page Update :

SITE DESCRIPTION:

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Extensive marsh just upstream of the mouth of the slough makes this site a prime target for exclusion booming.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

YES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

Site Strategy - Eureka Slough 1-326 -A

County and Thomas Guide Location

NOAA CHART

1-326 -A Latitude N Longitude W

Humboldt

CONCERNS and ADVICE to RESPONDERS:

Last Page Update:

HAZARDS and RESTRICTIONS:

Shallow water at low tide

SITE STRATEGIES

Strategy 1-326.1 Objective: Exclusion oil from the slough.

ACP DATE

Exclusion boom the mouth of the slough.

Strategy 1-326.2 Objective: Collect oil

ACP DATE

Collect oil using a skimmer.

Table of Response Resources

strategy number		swamp boom	Other boom type	sorb boom	Anchor	ing type and gear		Skiffs punts	-	mers Type	Sp No	ecial E and	Equipment kinds	staff deploy	Staff tend
1-326.1	1000	200	0	100	0		1	0						10	
1-326.2	1000	0	0	100	0		1	0	1 skin	nmer 1	1 c	ollectio	n and containmanet package	10	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Eureka slough is just around the corner from the City of Eureka launch ramp on waterfront drive.

LAND ACCESS:

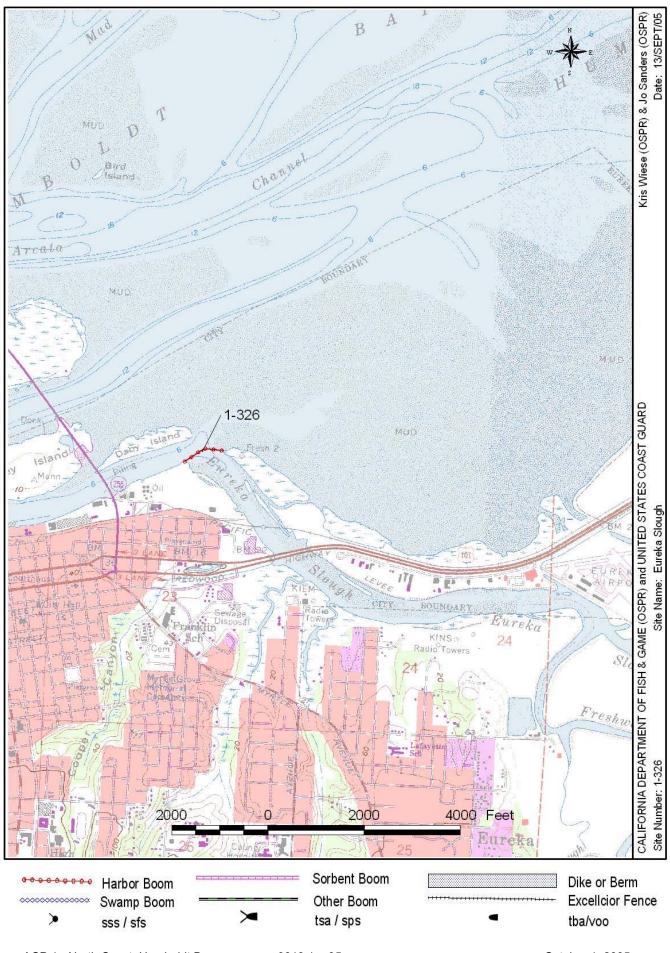
WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:



1-328 -A Site Summary- Woodley Island

1-328 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: NOAA Chart:

Last Page Update :

SITE DESCRIPTION:

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

An extensive public boat dock and complex salt marsh are all present at Woodley Island.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

YES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

1-328 - A Site Strategy - Woodley Island

NOAA CHART

1-328 -A

Latitude N Longitude W

Humboldt

CONCERNS and ADVICE to RESPONDERS:

Last Page Update:

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

County and Thomas Guide Location

Strategy 1-328.1 Objective: Boom, collect and skim oil out of the envirnoment

ACP DATE

Diversion boom the oil from out of the Eureka Channel to a skimmer at Woodley Island.

Strategy 1-328.2 Objective: Boom, collect and skim oil out of the envirnoment

ACP DATE

Place a boom from the South western tip of Indian Island to a skimmer on Woodley Island. This is the same strategy as Indian Island site strategy #2.

Table of Response Resources

strategy	harbor	swamp	Other	sorb	An	nchoring	Boom	Skiffs	Ski	immers	Sp	ecial E	quipment	staff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No	Туре	No	and	kinds	deploy	tend
1-328.1	1200	0	0	0	0		0	1	1 s	kimmer	0			10	
1-328.2	1200	0	0	0	0		1		0		0			10	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Humboldt Bay is adjacent to Highway 101, near the cities of Arcata and Eureka. Highway 255 passes over it on the north end, and the exit to Woodley Island is off of Highway 255 about 1/2 mile northeast of Eureka at Highway 101.

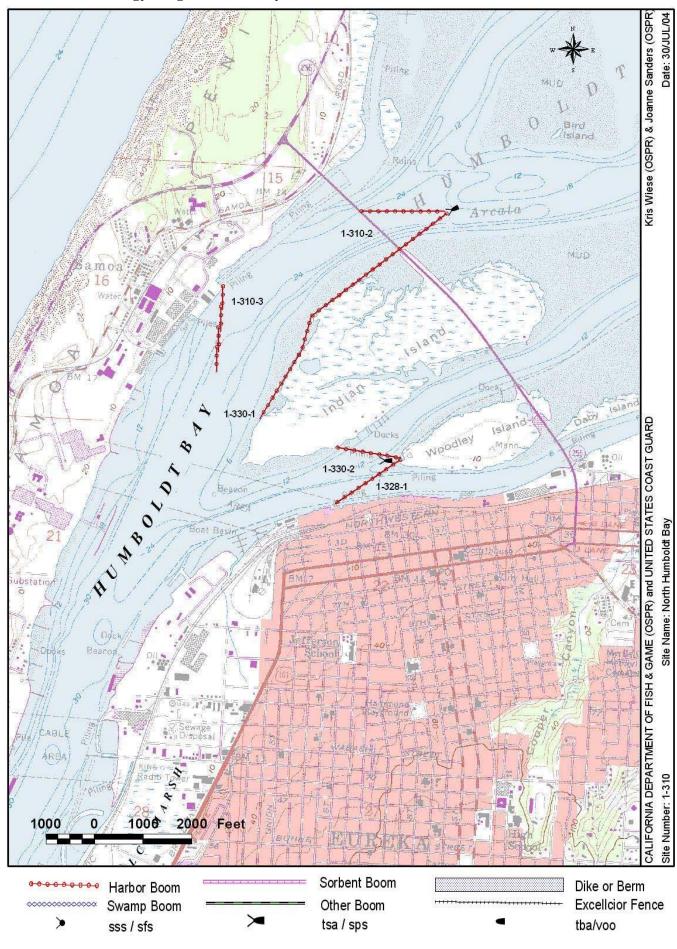
LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:



1-330 -A Site Summary- Indian Island

1-330 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: NOAA Chart:

Last Page Update :

SITE DESCRIPTION:

Largest Island in Humboldt Bay, it is a sacred site for many of the tribes of northern California.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Extensive marsh system and wetlands are vulnerable to oiling.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Sacred site for many Native Americans

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

1-330 - A Site Strategy - Indian Island

County and Thomas Guide Location

NOAA CHART

1-330 -A titude N Longitude W

Humboldt

CONCERNS and ADVICE to RESPONDERS:

Last Page Update :

HAZARDS and RESTRICTIONS:

Sacred site. Do not enter without permission and supervision of the Wiyot Tribe.

SITE STRATEGIES

Strategy 1-330.1 Objective: Exclude and divert oil from the islands marshes and wetlands

ACP DATE

Deflect oil beginning from the south western tip of the island north along the west shore. The terminal end should direct oil to a skimmer in the Samoa Channel (See 1-310).

Strategy 1-330.2 Objective: Exclude and divert oil from the islands marshes and wetlands

ACP DATE

Deflect oil from the south eastern tip of the island to a skimmer on Woodley Island. This is the same strategy as Woodley Island site strategy #2 (1-328-2).

Table of Response Resources

strategy number		swamp boom	Other boom type	sorb boom	An no	choring type and gear		Skiffs	1	immers Type	- 1	ecial E	quipment kinds	staff deploy	Staff tend
1-330.1	3500	0	0	0	5	25lb danforth	1	0		SPS	0			10	
1-330.2	1200	0	0	0	0		1		1 5	skimmer	0			10	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Indian island is only accessible by boat. Do not walk on the Island.

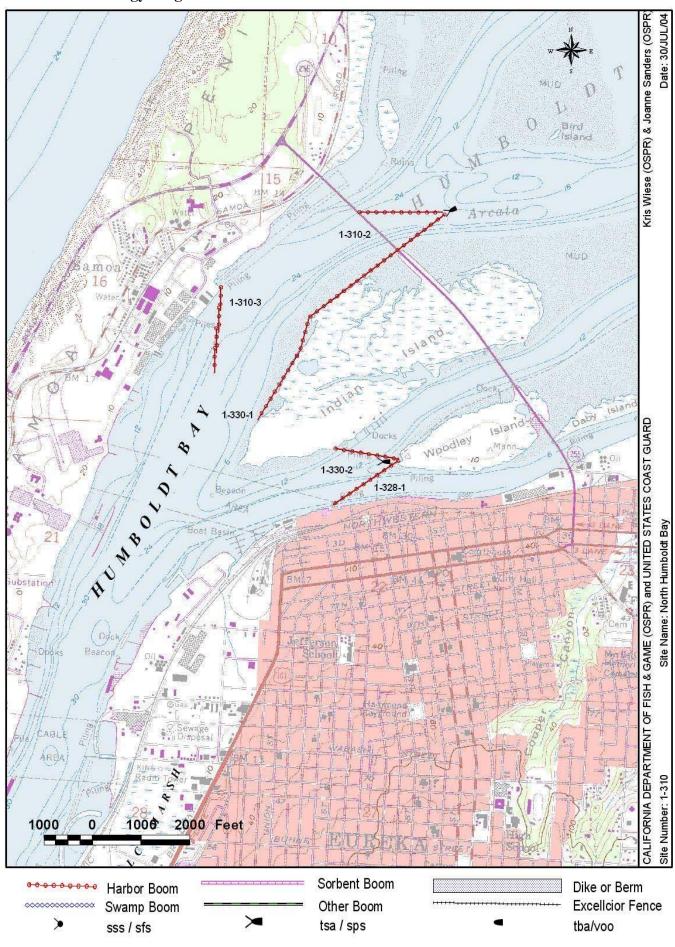
LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:



ACP 1 - North Coast: Humboldt Bay

1-340 -A

Thomas Guide Location Latitude N Longitude W

USGS Quad: NOAA Chart: 18622 Eureka

40 47' 124 11'

Last Page Update: 7/1/1996

SITE DESCRIPTION:

Humboldt

County:

Saltwater marshhydraulically connected to Humboldt Bay by three 30" culverts. Adjoining the marsh and located on the bay are eelgrass beds and exposed tidal flats.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Wading birds, shorebirds, waterfowl (01-12)

Pacific herring spawn on eelgrass in bay (11-03)

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O) Type Name / Title Organization **Phone**

1-340 - A Site Strategy - Palco Marsh

County and Thomas Guide Location NOAA CHART Humboldt 18622

1-340 -A

Latitude N Longitude W 40 47' 124 11'

Last Page Update:

CONCERNS and ADVICE to RESPONDERS:

HAZARDS and RESTRICTIONS:

S

SITE STRATEGIES

Strategy 1-340.1 Objective: Prevent oil from entering the marsh.

ACP DATE

Install pre-fitted splash boards into the water gate to prevent tidal exchanges.

Strategy 1-340.2 Objective: Prevent oil from entering the marsh

ACP DATE

Insure the Del Norte Street tidal gates are free from debris. Clear obstructions from the tidal gates to insure that they will close properly.

Table of Response Resources

strategy	harbor	swamp	Other	sorb	An	nchoring	Boom	Skiffs	Skir	mmers	S	pecial E	quipment	s	taff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No	Type	No	and	kinds	de	ploy	tend
1-340.1	0	0	0	0	0		0	0	0		7	Pre-fitted	splash boards		2	
1-340.2	0	0	0	0	0		0	0	0		1	Debris ho	oks, shovels, pr	y-bar, pitchfork	2	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

From U.S. hwy 101 southbound in Eureka (South Broadway St), take Del Norte St. (M.P. 77.250) west and continue to the foot of Del norte Street. Gated access located at the point where the railroad tracks cross Del Norte Street (the marsh is visible at this point).

Gated access is also possible from the foot of Vigo Street or Bayshore Way (SB U.S. hwy 101 M.P.s 76.750 and 76.560).

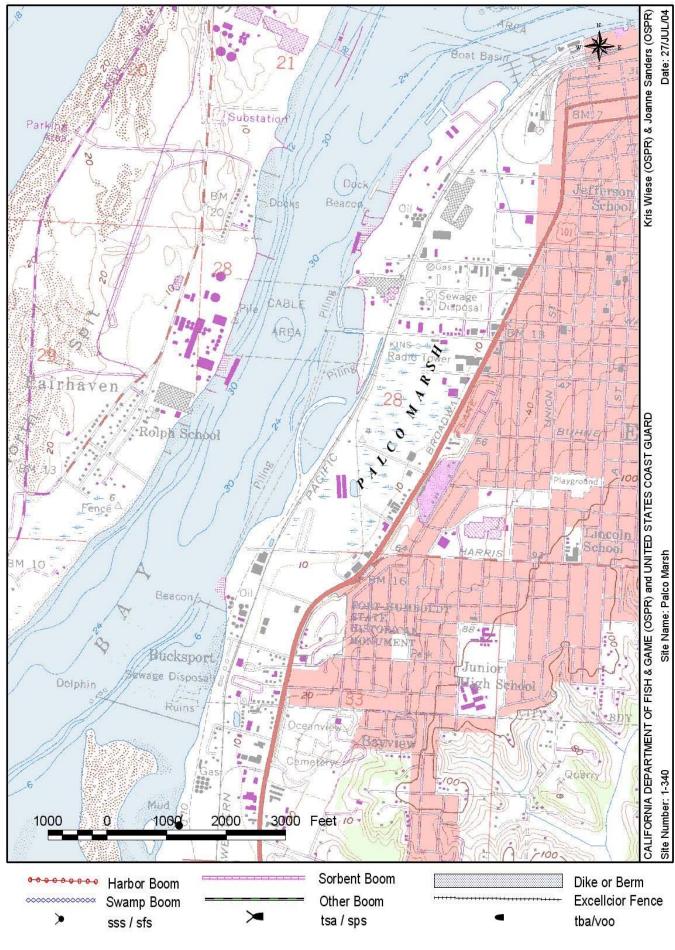
LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:



1-345 -A Site Summary- Elk River & Marsh

1-345 -A

Thomas Guide Location Latitude N Longitude W 40 46' 124 12'

USGS Quad: NOAA Chart: 18622 Eureka

Last Page Update: 7/1/1996 SITE DESCRIPTION:

This site extends from its tidal inlet on Humbolt Bay to includes the upstream tidal marsh complex to the limits of tidal influence. The inlet consists of sheltered tidal flats with eelgrass beds. Elk River spit is fine to medium grain sand.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Humboldt

Wading birds, shorebirds, waterfowl (01-12), migratory waterfowl and shorebirds (10-04); Black brant (10-06), Kingfishers, Egrets, raptors incl. Osprey (CSC)(01-12).

Anadromous salmonids: Coho (FT) and Chinook (CSC) salmons, Steelhead (FSS) and Coastal cutthroat (CSC) trouts:

- spawning runs (08-06)

County:

- juveniles/smolts (02-08)

Pacific herring spawn on eelgrass (11-03).

Larval and juvenile flatfishes and herring utilize this area.

Other non-com'l fish spp. Utilize the eelgrass beds (habitat).

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O) Name / Title Organization Phone Type

Site Strategy - Elk River & Marsh 1-345 -A

County and Thomas Guide Location 18622 Humboldt

NOAA CHART

1-345 -A Longitude W

40 46' 124 12'

Last Page Update:

CONCERNS and ADVICE to RESPONDERS:

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 1-345.1 Objective: Shut key-locked drop gates to prevent tidal exchange into the marsh

Keys are available at either the Chevron Terminal in Eureka or from the City of Eureka Public Works Office.

Strategy 1-345.2 Objective: Boom the mouth of Elk River to exclude oil.

ACP DATE

Exclusion boom the river mouth and collect oil if possible.

Table of Response Resources

strategy	harbor	swamp	Other	sorb	And	nchoring	Boom	Skiffs	Skimme	ers	Sp	ecial Ec	quipment	staff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No Ty	/pe	No	and	kinds	deploy	tend
1-345.1	0	0	0	0	0		0	0	0		1 k	(ev		2	
1-345.2	1400	0	0	300	0		0	1	1 SBS		1 (Containm	ent system	10	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

From southbound U.S. hwy 101 (South Broadway Street) in Eureka, take hilfiker Lane (M.P. 75.740) west and continue to its end at Elk River. This site extends from its tidal inlet on Humbolt Bay to includes the upstream tidal marsh complex to the limits of tidal influence.

LAND ACCESS:

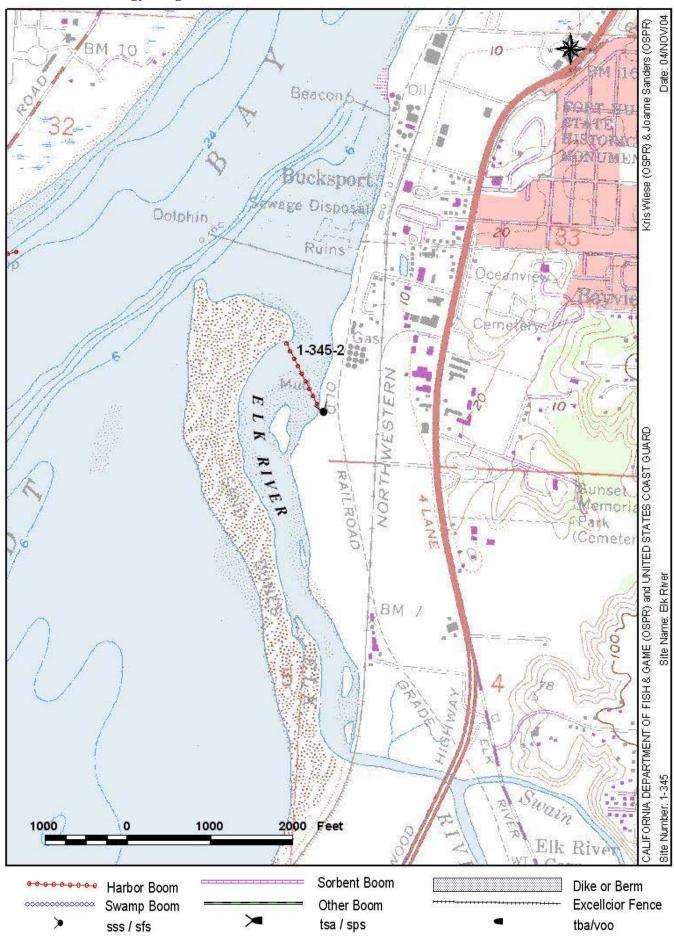
accessible all vehicle types incl hvy equip.

WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:



1-350 - A Site Summary - South Humboldt Bay

1-350 -A

Thomas Guide Location

Latitude N Longitude W 40 42' 30" 124 15'

County: Humboldt

USGS Quad: Cannibal Isl., Fields Landing

NOAA Chart: 18622

Last Page Update: 7/1/1996

SITE DESCRIPTION:

Large estuary complex with extensive marshes, eelgrass meadows, and sheltered tidal flats exposed at low tide.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Eelgrass Meadow

Birds are a concern throughout the year. Coastal seabirds, wading birds, waterfowl. Important for Black brant en route to breeding grounds. California brown pelican (SE)(04-11), Marbled murrelet (FT,SE). Raptors including Bald eagle (SE);

Peregrine falcon (SE), Osprey (CSC); all (01-12).

Haul outs for molting and pupping in this area

Anadromous salmonids: Coho (FT) and Chinook (CSC) salmons, Steelhead (FSS) and Coastal Cutthroat (CSC) trouts:

- spawning runs (08-06)
- juveniles/smolts (pass through bay)

Larval and juvenile fish use area as rearing habitat

Benthic invertebrates including several recreationally impt. Clam species

Invertebrates

Eelgrass meadow

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Yes.

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

Site Strategy - South Humboldt Bay 1-350 -A

County and Thomas Guide Location

NOAA CHART Latitude N Longitude W Humboldt 18622 40 42' 30 124 15'

CONCERNS and ADVICE to RESPONDERS:

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

Strategy 1-350.1 Objective: Deploy boom to strand oil on shore.

ACP DATE

1-350 -A

Last Page Update:

Deflection boom oil to collection sites or stranding sites in the south bay.

Strategy 1-350.2 Objective: On water recovery

ACP DATE

On water recovery using either a towed boom array or with a towed barge skimmer.

Table of Response Resources

strategy	harbor	swamp	Other	sorb	And	choring	Boom	Skiff	s S	Skimmers		Special E	quipment	staff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	a l	No Type	No	and	kinds	deploy	tend
1-350.1	1200	0	0	0	0		2	0	2	skimmer	0			10	
1-350.2	100	0	0	0	0			2	1	SBS	0			2	

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

- Access to the shores of South Humboldt Bay are limited by extensive wetland areas, with the exception of the developed areas around Fields Landing and King Salmon.
- East side of South Bay: Go south on U.S. hwy 101 from Eureka to the King Salmon exit M.P. 73.046 and go west on Buhne Drive to King Salmon (town) and the Bay. Go south on U.S. hwy 101 from Eureka to the Fields Landing exit M.P. 70.844. Take Railroad Avenue to its end at the Bay.
- West side of South Bay: Go south on U.S. hwy 101 to Hookton Road overpass M.P. 68.116. From stop sign, continue west (straight ahead) on Hookton Road to Table Bluff Road. Continue in same direction. The road will become South Jetty and run the length of the South Jetty.
- Access by boat: Two hoist type facilities are available in King Salmon. A launching ramp (end of Railroad Ave.) and travelift (end of Depot Drive) are available in Fields Landing.

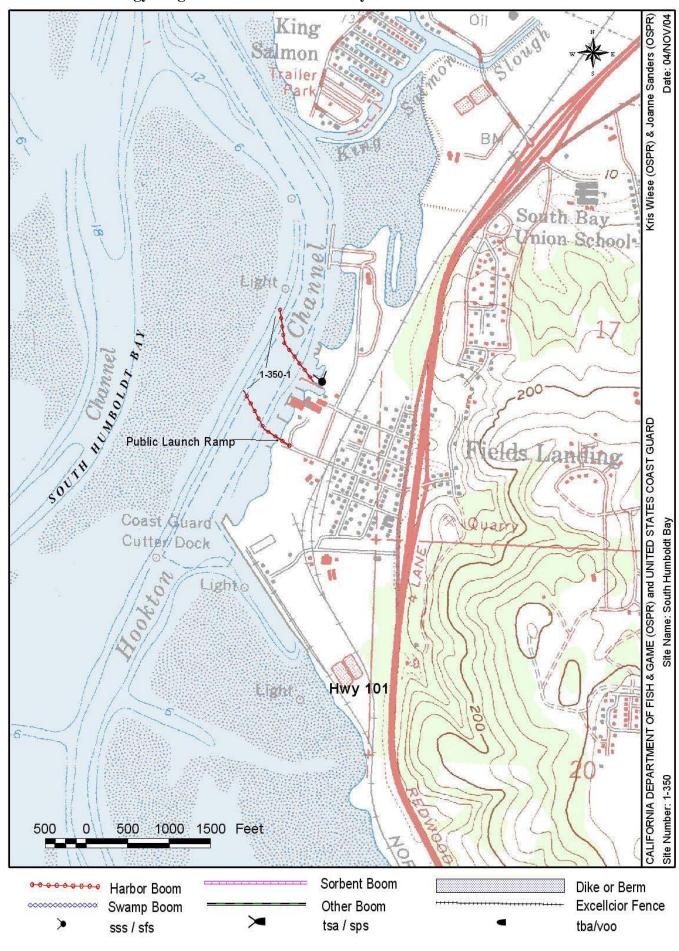
LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:



1-352 - A Site Summary- White Slough & Salmon Creek

1-352 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: NOAA Chart:

Last Page Update :

SITE DESCRIPTION:

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

Extensive marsh and salmonid habitat lie upstream of this area.

Wading birds, shorebirds, waterfowl (01-12), migratory waterfowl and shorebirds (10-04); Black brant (10-06), Kingfishers, Egrets, raptors incl. Osprey (CSC)(01-12).

Anadromous salmonids: Coho (FT) and Chinook (CSC) salmons, Steelhead (FSS) and Coastal cutthroat (CSC) trouts:

- spawning runs (08-06)
- juveniles/smolts (02-08)

Pacific herring spawn on eelgrass (11-03).

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

1-352 - A Site Strategy - White Slough & Salmon Creek

County and Thomas Guide Location

NOAA CHART

1-352 -A

Humboldt

CONCERNS and ADVICE to RESPONDERS:

Last Page	: Update	:

HAZARDS and RESTRICTIONS:

The soft mud can be challenging to boom deployment workers.

SITE STRATEGIES

Strategy 1-352.1 Objective: Prevent oil from entering the slough

ACP DATE

Use 600' of hard boom, deliverable to site by USCG helicopter. Hand crews can deploy the boom at lower tides.

Table of Response Resources

strategy	harbor	swamp	Other	sorb	Anch	oring	Boom	Skiffs	Skim	nmers	Sp	ecial E	Equipment	staff	Staff
number	boom	boom	boom type	boom	no	type and gear	boat	punts	No	Type	No	and	kinds	deploy	tend
1-352.1	600	0	0	0	0		0	0	0		4 /	Anchor s	stakes	6	<u> </u>

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

This site can be reached by driving south from Eureka on Highway 101. Take the Hookton Road exit from Highway 101 at the south end of the Bay. To the Hookton Slough trailhead, drive 1.2 miles west on Hookton Road; the parking area is on the north side of Hookton Road.

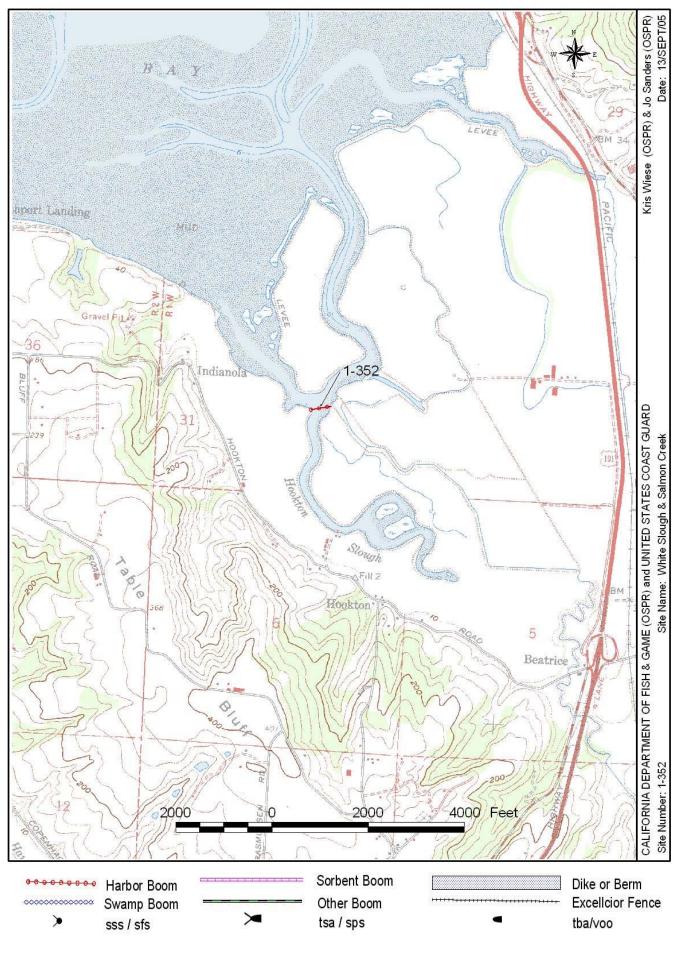
LAND ACCESS:

WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:



1-360 -A Site Summary- South Spit

1-360 -A

Thomas Guide Location Latitude N Longitude W

County: Humboldt

USGS Quad: Humboldt Fields Landing NOAA Chart: 18622

SITE DESCRIPTION:

Last Page Update: 7/1/1996

Fine to medium grain sand beach on the ocean side, backed by vegetated dunes. Mudflats on bay side.

SEASONAL and SPECIAL RESOURCE CONCERN

RESOURCES OF PRIMARY CONCERN

California brown pelican (SE)(04-11), Snowy plover (FT)(01-12) - Critical nesting period (04-07). Nests directly on sand within dunes.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type Name / Title Organization Phone

Site Strategy - South Spit 1-360 -A

NOAA CHART

Latitude N Longitude W

1-360 -A

Humboldt

18622

Last Page Update:

CONCERNS and ADVICE to RESPONDERS:

HAZARDS and RESTRICTIONS:

SITE STRATEGIES

County and Thomas Guide Location

Table of Response Resources

strategy	harbor	swamp	Other	sorb	Anchoring	Boom	Skiffs	Skimmers	Special Equipment	staff Staff
number	boom	boom	boom type	boom	no type and gear	boat	punts	No Type	No and kinds	deploy tend

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

Go south on U.S. hwy 101 to Hookton Road overpass M.P. 68.116. From stop sign, continue west (straight ahead) on Hookton Road to Table Bluff Road. Continue in same direction. The road will become South Jetty Road and run the length of the South Jetty terminating at the entrance channel. Call Humboldt County Sheriff for key to the gated access.

LAND ACCESS: Call Humboldt Cty Sheriff for key to gate

WATER LOGISTICS:

Limitations: depth, obstruction Launching, Loading, Docking and Services Available:

FACLITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

COMMUNICATIONS PROBLEMS:

